

PATENT CLAIMS

1. The multilayered steel armour consisting of the front-face ballistic-resistant armour layer (1) and the backing armour layer (2), which are fully metallurgically bonded by means of at least one joining metallic intermediate layer (3), for example, by casting, wide-area welding techniques, using technology of explosive cladding (high-velocity impact cladding), by roll welding or by a combination of the previous techniques, characterized by the fact, that the joining metallic intermediate layer (3) between the front-face ballistic-resistant armour layer (1) and the backing armour layer (2) is made from the material featuring the face-centered cubic crystalline lattice (FCC lattice), in particular, from the nickel alloy containing maximally 98.0 wt% of nickel and/or from steel.
2. The multilayered steel armour according to claim 1 characterized by the fact, that the material of the joining metallic intermediate layer (3) contains between 50.0 wt% and 98.0 wt% of nickel, between 0.1 wt% and 45.0 wt% of at least one of the alloying elements such as chromium, molybdenum, manganese, niobium, titanium, iron and the rest making some other accompanying elements and usual impurities.

3. The multilayered steel armour according to claim 1 characterized by the fact, that the material of the joining metallic intermediate layer (3) contains between 5.0 wt% and 50.0 wt% of nickel, in total between 0.1 wt% and 40.0 wt% of chromium, manganese, molybdenum, niobium and titanium in the role of alloying elements, while the rest of the content is iron and other accompanying elements and usual impurities.
4. The multilayered steel armour according to claim 1 characterized by the fact, that the material of the joining metallic intermediate layer (3) contains from 8.0 wt% to 30.0 wt% of manganese, in total from 0.1 wt% to 30.0 wt% of chromium, nickel, vanadium, silicone and carbon in the role of alloying elements while the rest is represented by iron and other accompanying elements and usual impurities.
5. The multilayered steel armour according to at least one of the previous claims, characterized by the fact, that there is at least one additional internal armour layer (4,5) placed between the front-face ballistic-resistant layer (1) and the backing armour layer (2) while the joining metallic intermediate layers (3) are arranged accordingly between all the armour layers (1,2,4,5) present in the armour sandwich.

6. The multilayered steel armour according to claim 5
characterized by the fact, that the inserted
internal armour layer (4,5) is formed from steel
containing from 0.2 wt% to 0.9 wt% of carbon, from
5 0.1 wt% to 2.0 wt% of manganese, from 0.2 wt% to
2.0 wt% of chromium, from 0.3 wt% to 4.5 wt% of
nickel, from 0.1 wt% to 1.0 wt% of molybdenum,
from 0.1 wt% to 2.0 wt% of silicone and no more
that about 0.01 wt% of boron while the rest is
10 formed by iron and other accompanying elements and
usual impurities.